

Headquarters U.S. Air Force

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Capabilities Based Requirements



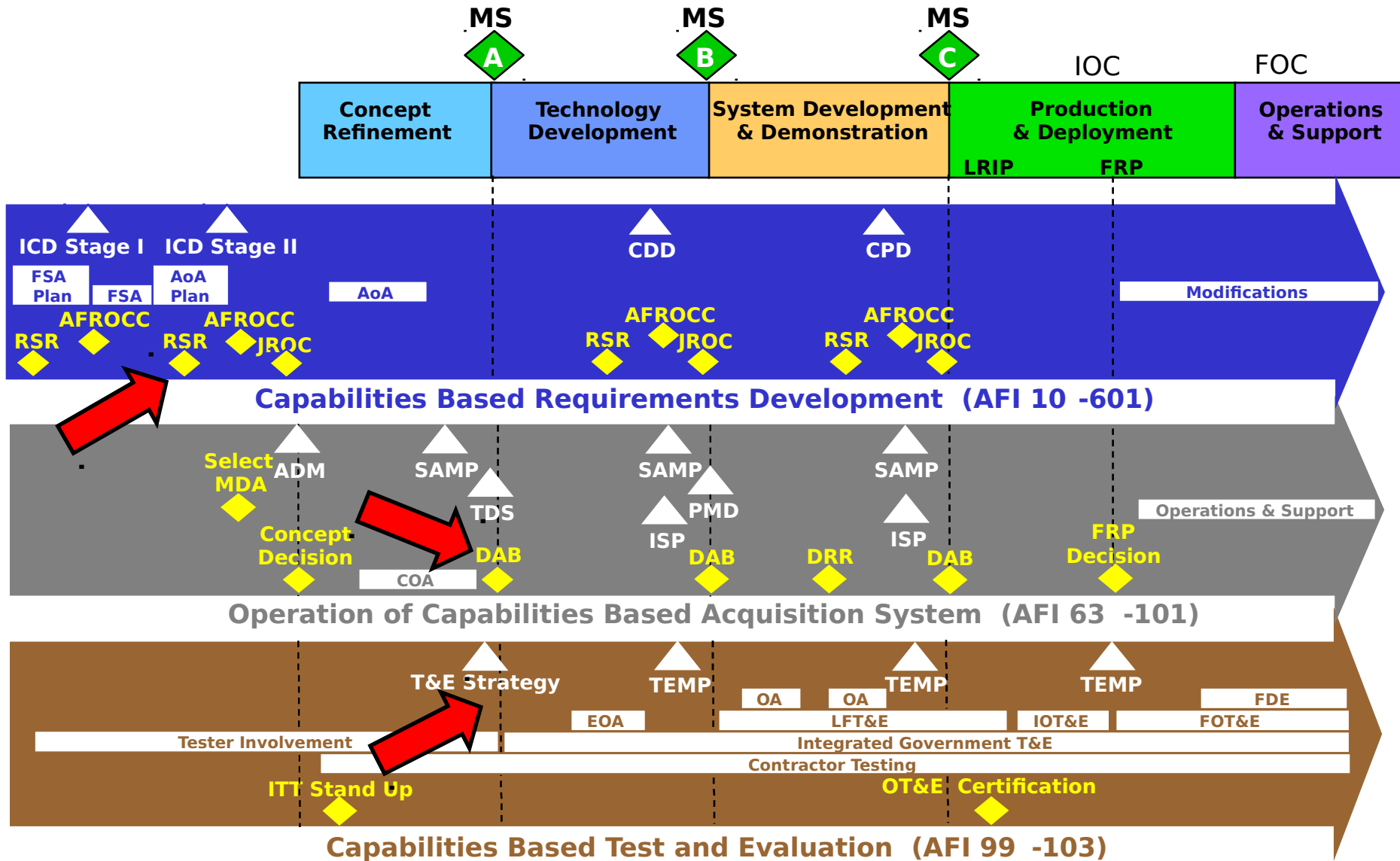
**HQ USAF/XORD
10 Mar 04**

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Integrated Schedule

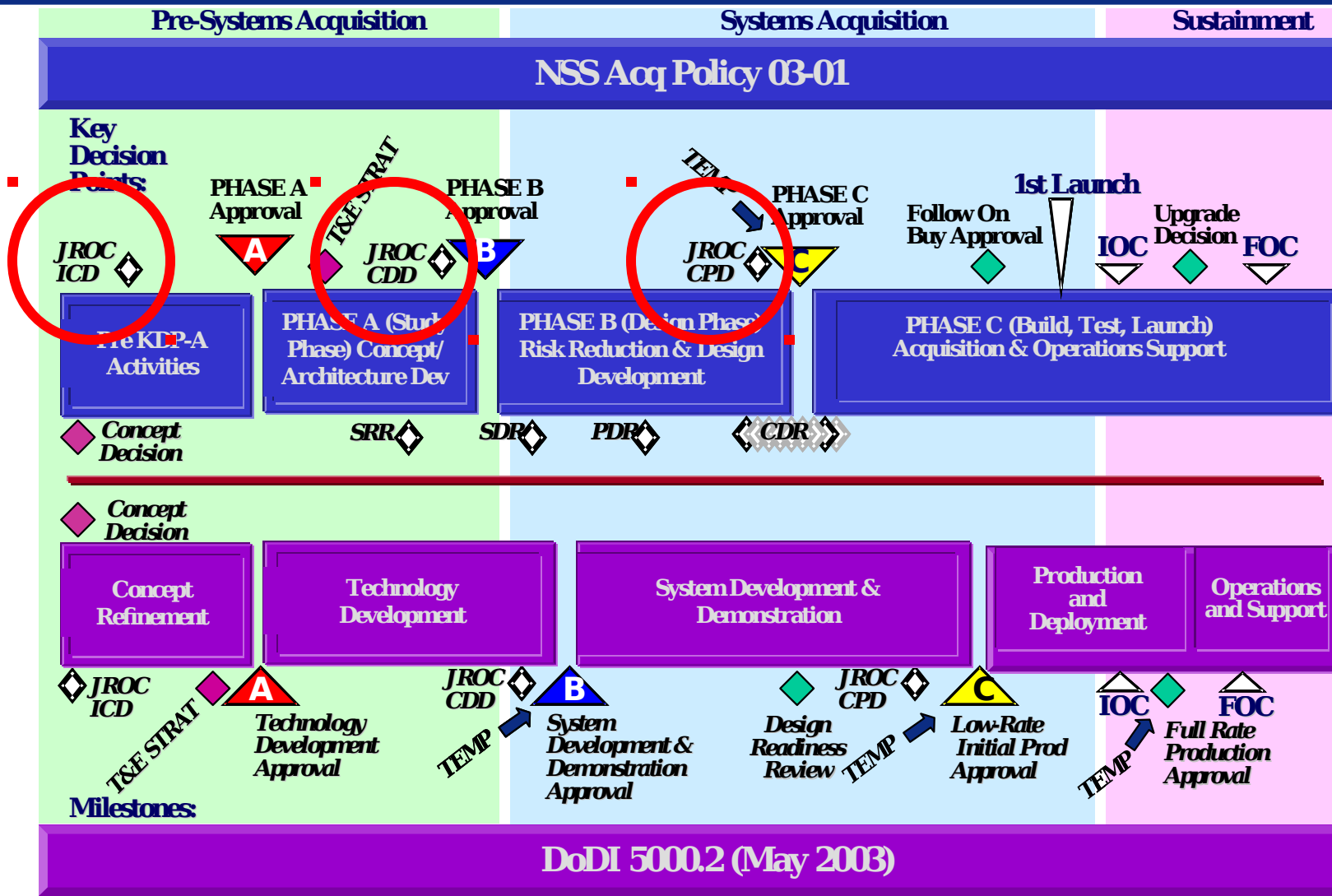
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Tailored Process for Space: Acquisition Phase

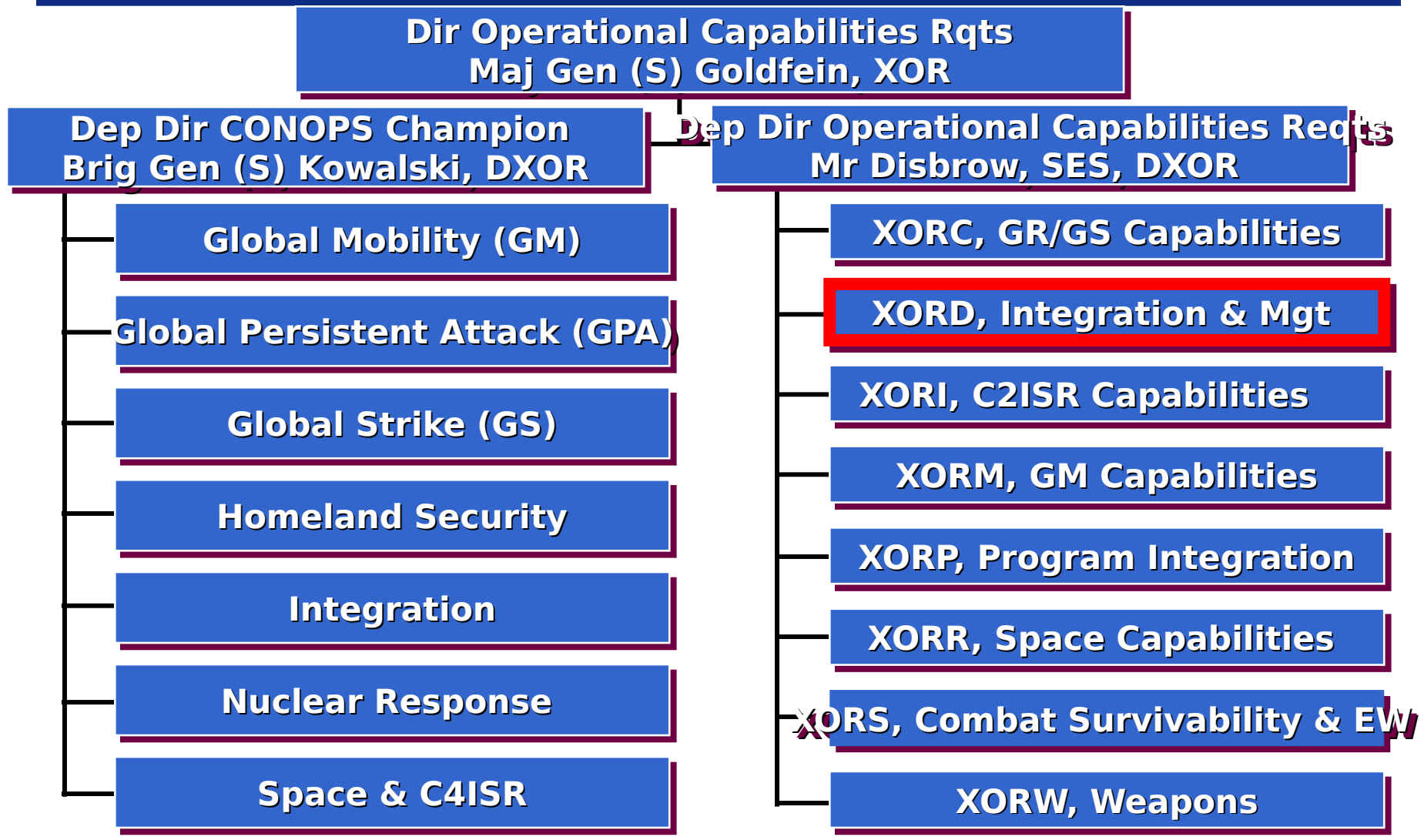


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XOR Organization

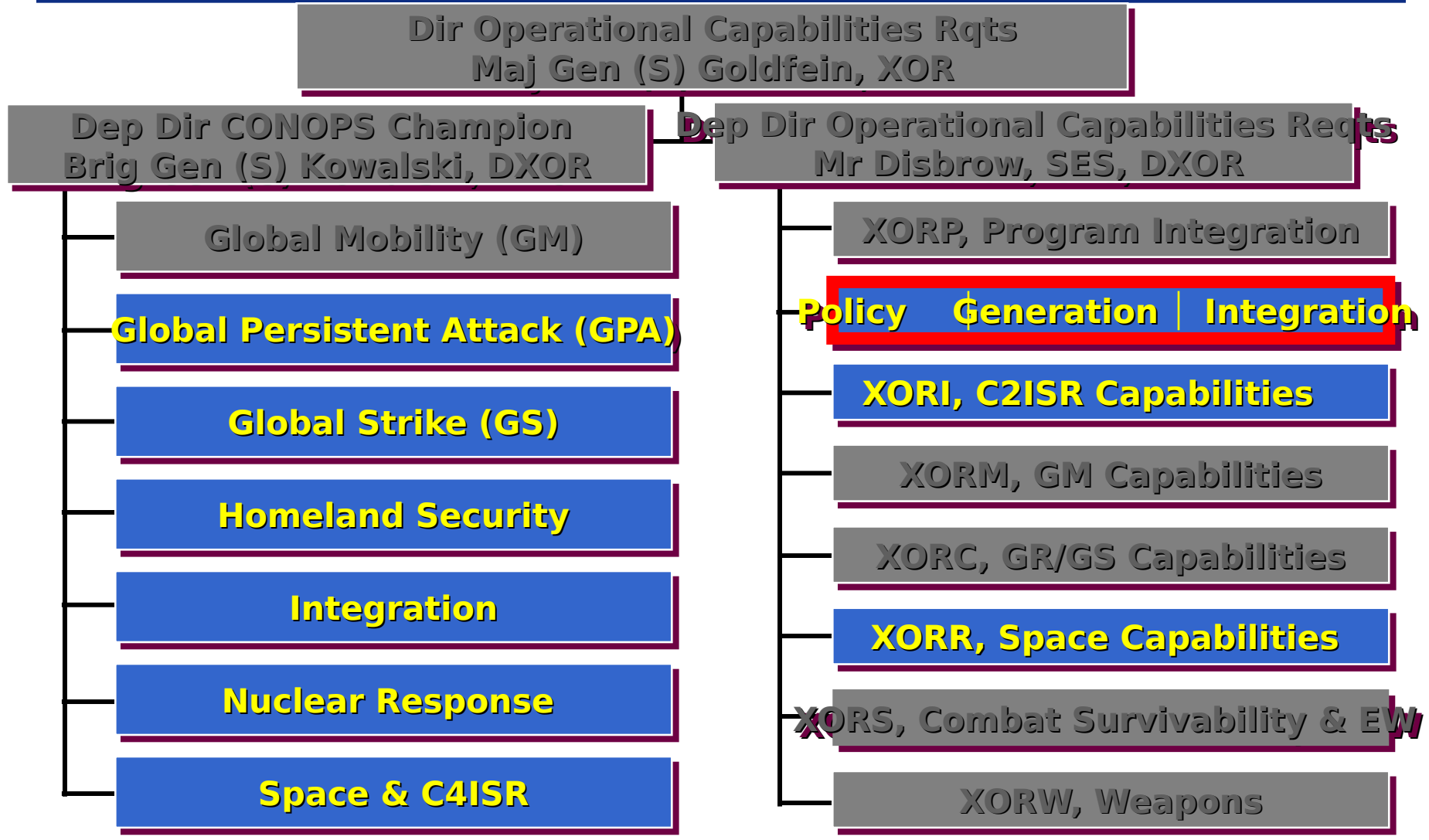


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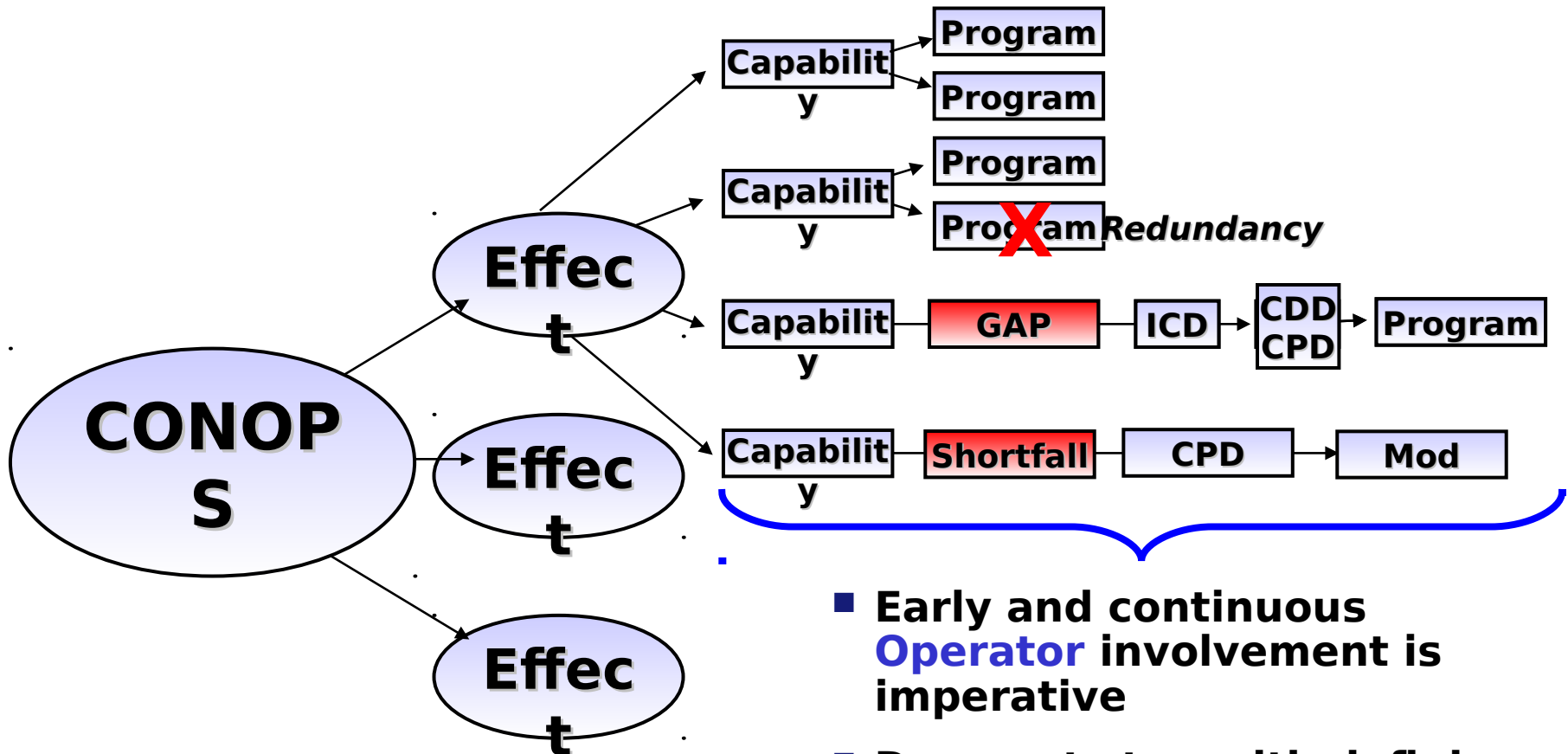
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Linkage



- Early and continuous **Operator** involvement is imperative
- Does not stop with defining the capability required
- Collaboration between all stakeholders is key



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Guidance

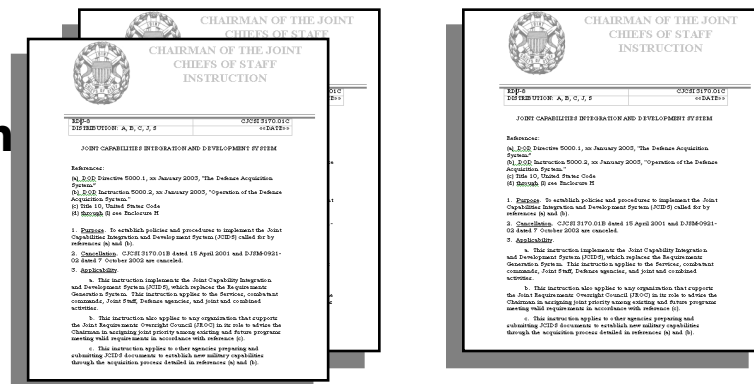
■ CJCSI 3170.01C, Joint Capabilities Integration and Development System

- Effects-based / capabilities focus
- Canceled MNS and ORDs
- Milestone A: **ICD** - Initial Capabilities Document
- Milestone B: **CDD** - Capability Development Document
- Milestone C: **CPD** - Capability Production Document

■ CJCSI 6212.01C, Interoperability and Supportability of Information Technology and National Security Systems

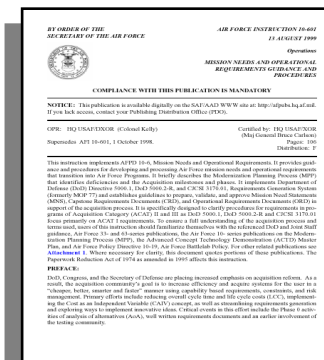
- Net-Readiness KPP

■ AFI 10-601, Capabilities Based Requirements Development



CJCSI 3170.01C
CJCSI 3170.01M
24 Jun 2003

CJCSI 6212.01C
20 Nov 2003

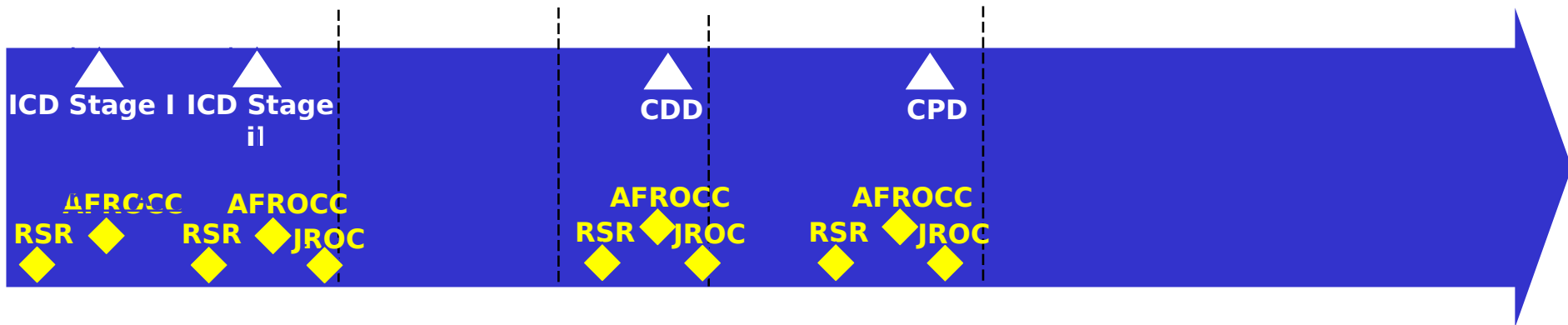
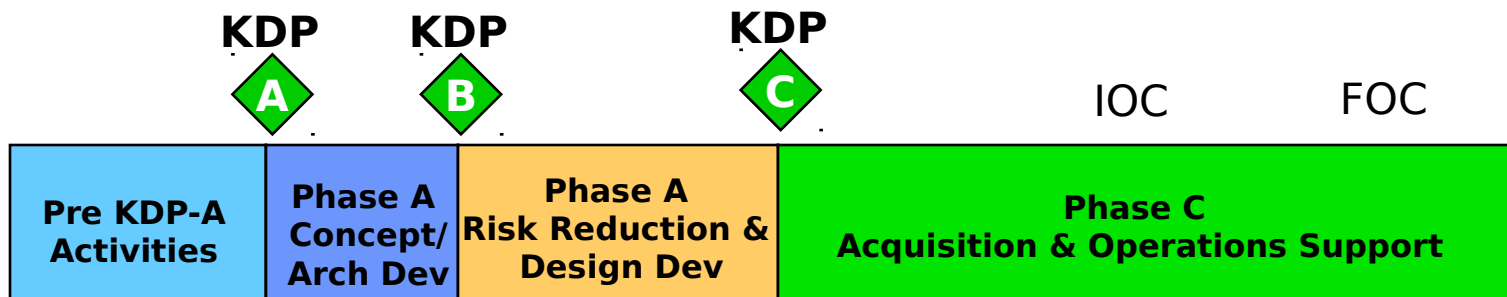


AFI 10-601
14 Oct 2003



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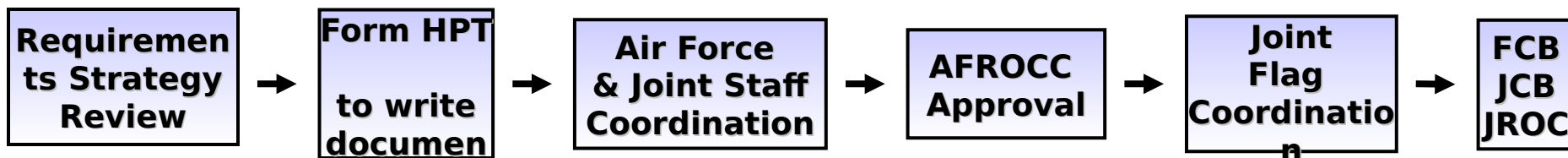
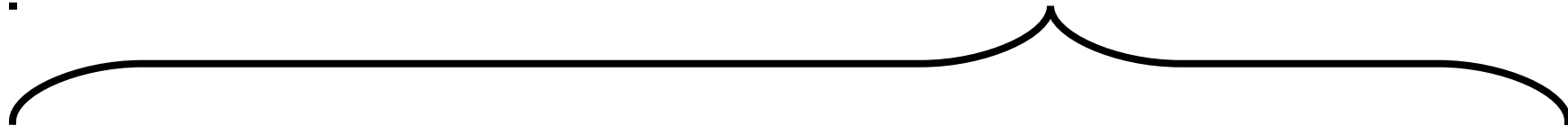
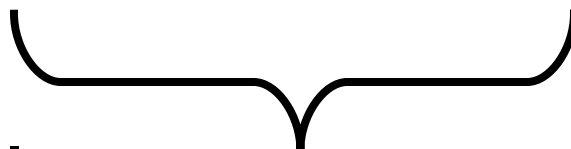
Capabilities Requirements Development Process





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Collaborative Requirements Process



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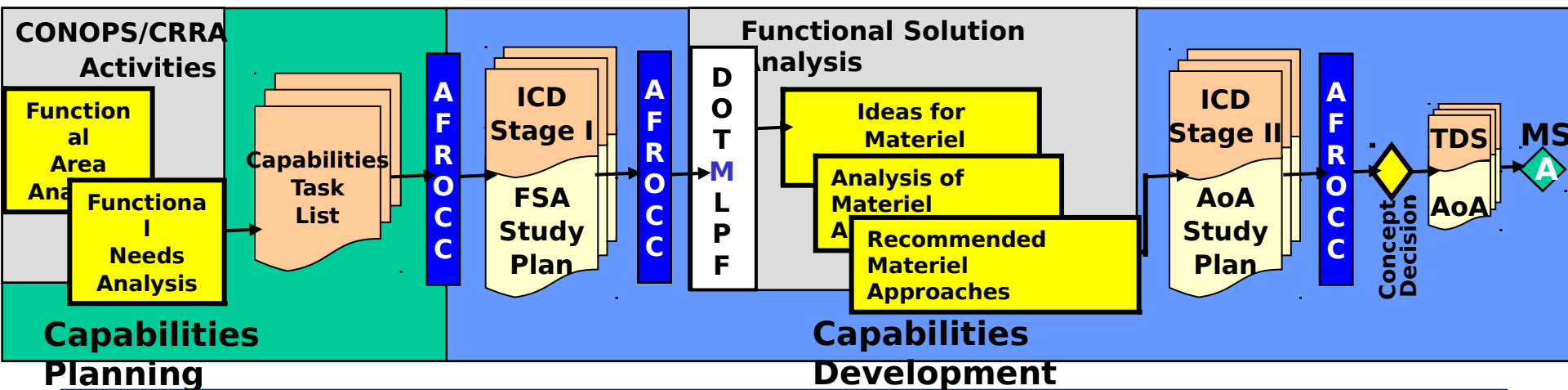
ICD Stage 1 & 2 Slide

■ ICD Stage 1

- Documents & defines capability gap
- Lays foundation for Functional Solution Analysis (FSA)
- Sections 1 - 5

■ ICD Stage 2

- Documents results of FSA
- Provides recommendation for materiel / non-materiel approaches
- Sections 1-7



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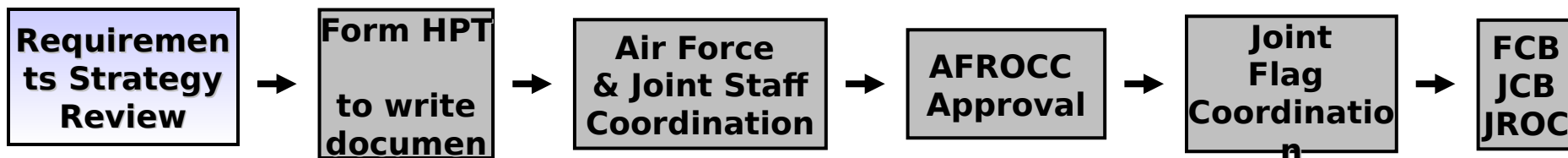
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Requirements Strategy Review (RSR)

- Obtain Mr. Disbrow's approval of requirements strategy
- Describe
 - Required capability
 - CONOPS
 - Military effects
 - Constraints
 - Schedule
 - High Performance Team (HPT) members
 - Document preparation timeline
 - Interoperability
- RSR mandatory for all documents



Mr Harry Disbrow, DXOR

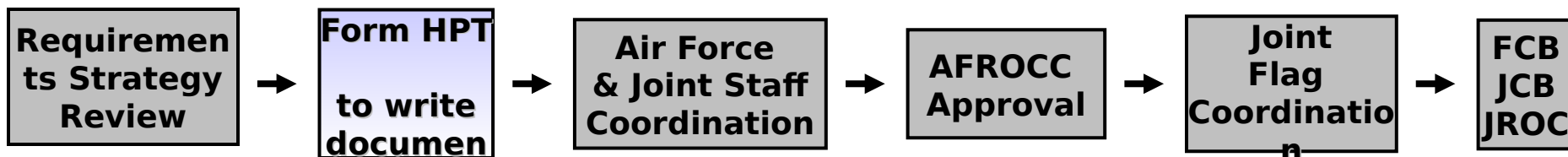
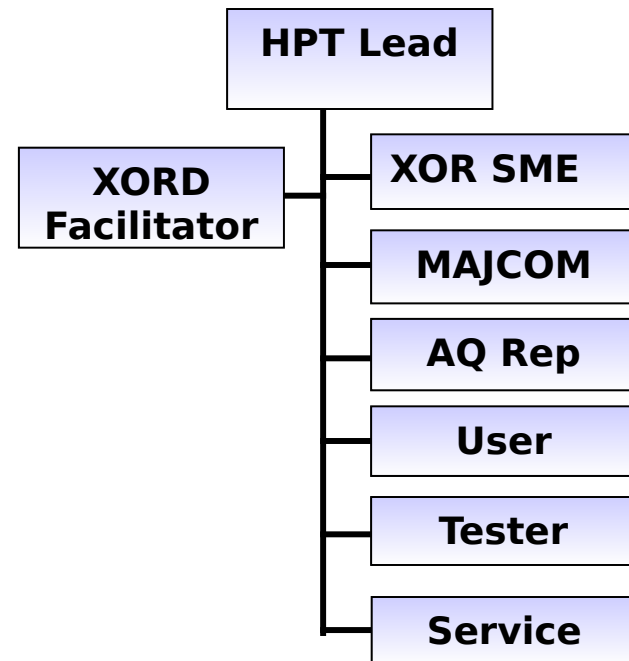




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High Performance Team

- 1 to 2 week document writing effort
- Core team
 - AF/XORD facilitates
 - Members come prepared
 - Small team
 - Usually led by MAJCOM
 - Dedicated to the task
 - Empowered by organization
- Support team
 - Conduit to other stakeholders
 - Act as subject matter expert
 - Provide support, as needed
 - Architecture expert



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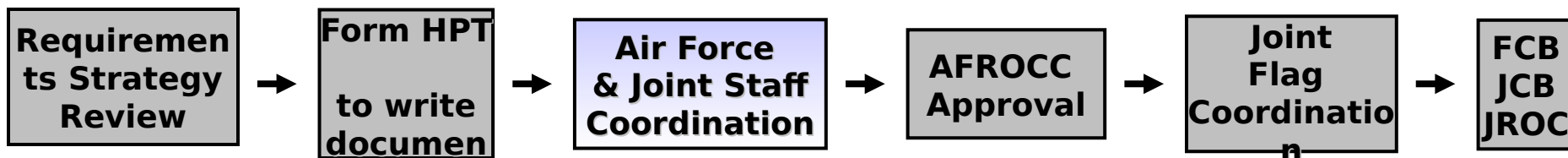
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Air Force & Joint Staff Coordination

- Internal MAJCOM coordination
- Other MAJCOM coordination
- Air Staff and Joint Staff (O-6) coordination
 - Allow 35 days for AF
 - Allow 25 days for Joint Staff O-6
 - Allow 10 days for Joint Potential Designator (JP)
- JPD
 - JROC Interest
 - Joint Integration
 - Independent



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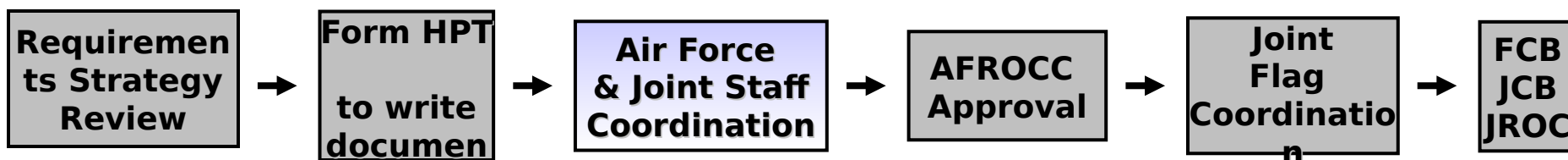
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Air Force & Joint Staff Coordination

- **MAJCOM POC** performs internal and external MAJCOM coordination
- **Air Staff** functional performs Air Staff coordination
 - One pass (Directorate level)
- **AF/XORD** performs policy review & is conduit for Joint Staff coordination
- **MAJCOM POC** resolves comments
- Resolve **all critical** comments before AFROCC
- Address **all substantive** comments before AFROCC



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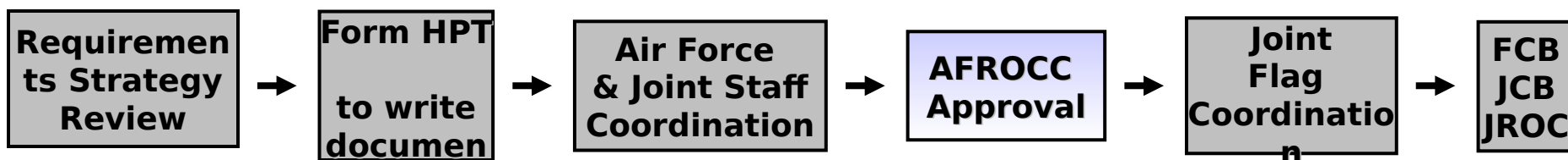
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AF Requirements for Operational Capabilities Council

- **Reviews and validates:**
 - **Requirement** documents (ICDs, CDDs, CPDs)
 - Required **architecture** views
 - Analysis of Alternatives (**AoA**) study plans/results
- **Members:** MAJCOMs, SAF/AQ, AF/IL, AF/TE, AF/XP, AF/XI, AF/XOI, AF/CIO, AFOTEC, AFRC, ANG, AFC2ISRC
- **Observers:** MDA, USA, USN, USMC, OAS, SAF/USA and AFSAA



AFROCC Chairman
Maj Gen (S) Goldfein,
XOR



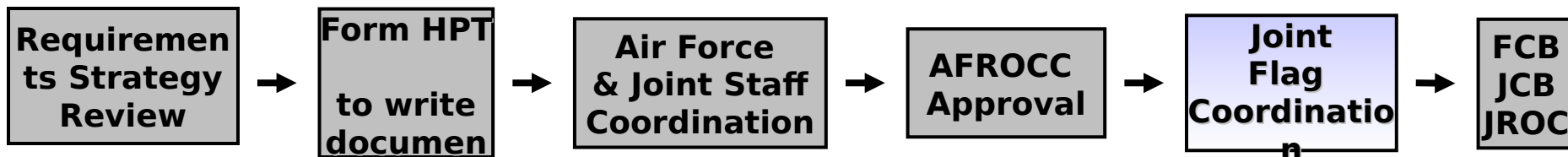
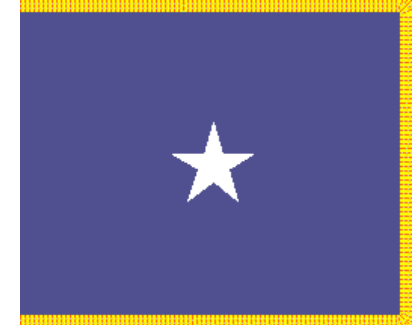
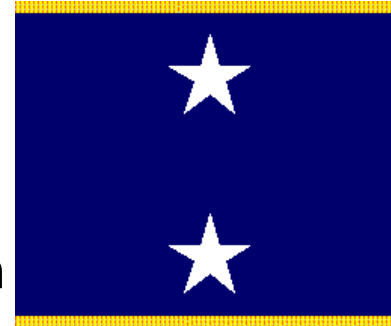
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Joint Flag Coordination

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- **Obtain Joint Flag coordination on JROC interest and Joint Integration**
- **Allow 21 days for coordination**
- **J-8 Flag coordination before JROC**





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FCB, JCB & JROC

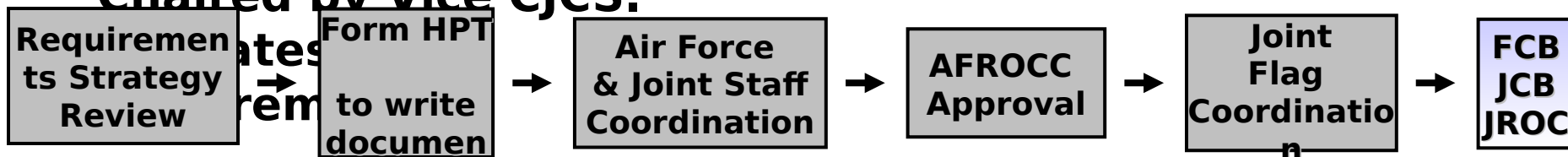
- **Functional Capability Board (FCB):** Chaired by J-8 VDRA. Provides oversight of JCIDS process.
- **Joint Capability Board (JCB):** Chaired by Director J-8. Reviews joint requirements.
- **Joint Requirements Oversight Council (JROC):** Chaired by Vice CJCS.



JCB Chairman
Lt Gen Cartwright, J8



JROC Chairman
Gen Pace, Vice CJCS



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Key Points To Remember

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- **RSR:**
 - Single most important step to make sure you are writing the correct document, have right people involved, and have right approach.
 - You can not build an RSR by yourself (collaborate)
- **ORD / MNS:**
 - Must meet MS B or C prior to Jun 2005
 - If in doubt, plan for a CDD or CPD
 - No MNS older then 2 years can support MS A
- **HPT Benefits:**
 - XORD led HPT allows concurrent O-6 staffing
 - Gain 2-3 months on staffing
- **Analysis and Rationale:**
 - Focus for CDDs and CPDs
 - Basis for thresholds and objectives
- **CRM:**
 - Joint Staff considers 15 day comment resolution a suspense
 - CRMs older then 6 months are going back into Joint Staff O-6 review



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Key Net Readiness Points To Remember

■ Net Ready KPP

- Documents entering staffing now - May 04, must have a migration strategy**
- By Jun 2004 all new documents entering JCIDS staffing must have a Net ready KPP**
- Legacy documents are grand fathered until updated**



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AF/XOR Web site, <https://www.xo.hq.af.mil/xor/restricted/>



AF/XOR

DIRECTORATE OF OPERATIONAL CAPABILITY REQUIREMENTS



What's NEW in XOR?

- [XOR Biographies](#)
- [XOR Execs](#)
- [XOR Divisions](#)
- [XOR Organization](#)
- [XOR Roster](#)
- [XOR Logo](#)
- [Paperwork & Staffing](#)
- [AO PEM Course](#)

Briefing note: the briefing is large, so you may want to just right-click on the link and download it to your desktop/files
Note: Whenever this page has changed, you can find all updates under the "What's New in XOR?"



- [CONOPS Champions Home Page](#)
- [Integration](#)
- [Global Mobility](#)
- [Global Response](#)
- [Global Strike](#)
- [Homeland Security](#)
- [Nuclear Response](#)
- [Space & C4ISR](#)



- [AFROCC](#)
- [XO Home Page](#)
- [AF Biographies](#)



- [Early Bird](#)
- [USAF AIM Points](#)
- [AF Issues and Answers](#)
- [AF Policy Digest](#)
- [American Forces Information Services \(AFIS\)](#)
- [AF Magazine](#)
- [Defense News Today](#)
- [Defense News](#)
- ["Officials use new doctrine for close air support in Iraqi Freedom"](#)
- ["USAF Gives More Resources to Task Forces Through Reorganization"](#)



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AF/XOR Web site, <https://www.afreqs.hq.af.mil/>

REQUIREMENTS INTEGRATION & MANAGEMENT DIVISION AF/XORD

CAPABILITY
REQUIREMENT
DOCUMENTS

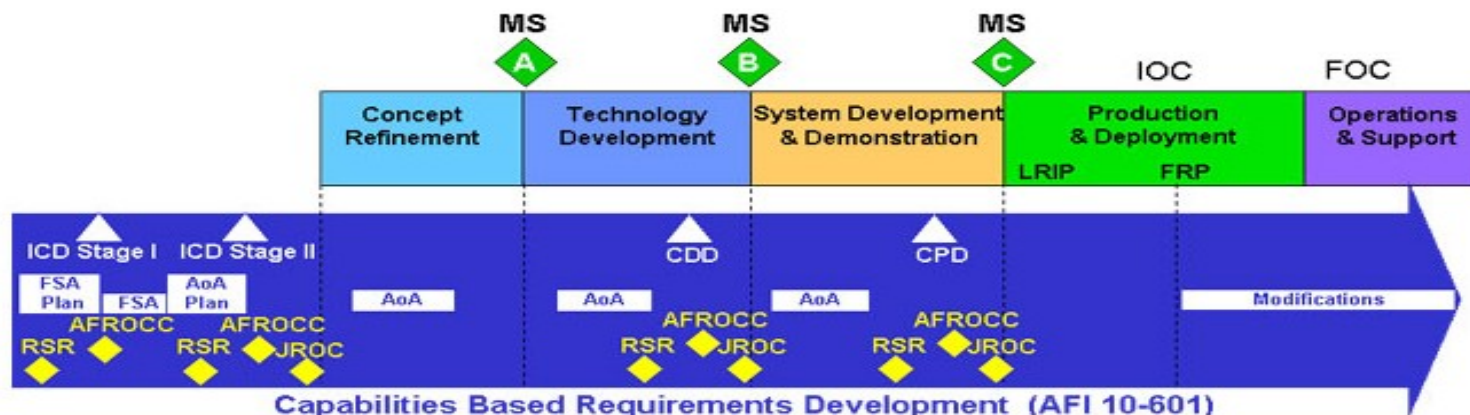
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AF/XOR

Home	Organization	Site Index	Guidance	CCD (aka CMNS)	XOR Home Page
Training	Reqs Strategy	HPT	Staffing Docs	AFROCC	IRSS

Air Force Capabilities Based Requirements Development

Note: We have released AFI 10-601 as interim guidance, and this is the new XORD web site. If you have any suggestions/ideas/inputs to improve this site, please send an email to the [XORD webmaster](#).

Click on the appropriate item below to receive additional information on each element.



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AF/XOR Web site, <https://www.afreqs.hq.af.mil/>

REQUIREMENTS INTEGRATION & MANAGEMENT DIVISION AF/XORD



CAPABILITY
REQUIREMENTS
DOCUMENTS
—
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AF/XORD



Home	Organization	Site Index	Guidance	CCD (aka CMNS)	XOR Home Page
Training	Reqs Strategy	HPT	Staffing Docs	AFROCC	IRSS

HIGH PERFORMANCE TEAMS :: HPT

The High Performance Team (HPT) workspace at Rosslyn is an open storage facility at the **Secret classification level**. All visitors to the facility must therefore provide Visit Requests. Before the HPT convenes, please fax your visit request to the attention of your HPT Facilitator at fax number: 703-696-6984.

HPT MENU

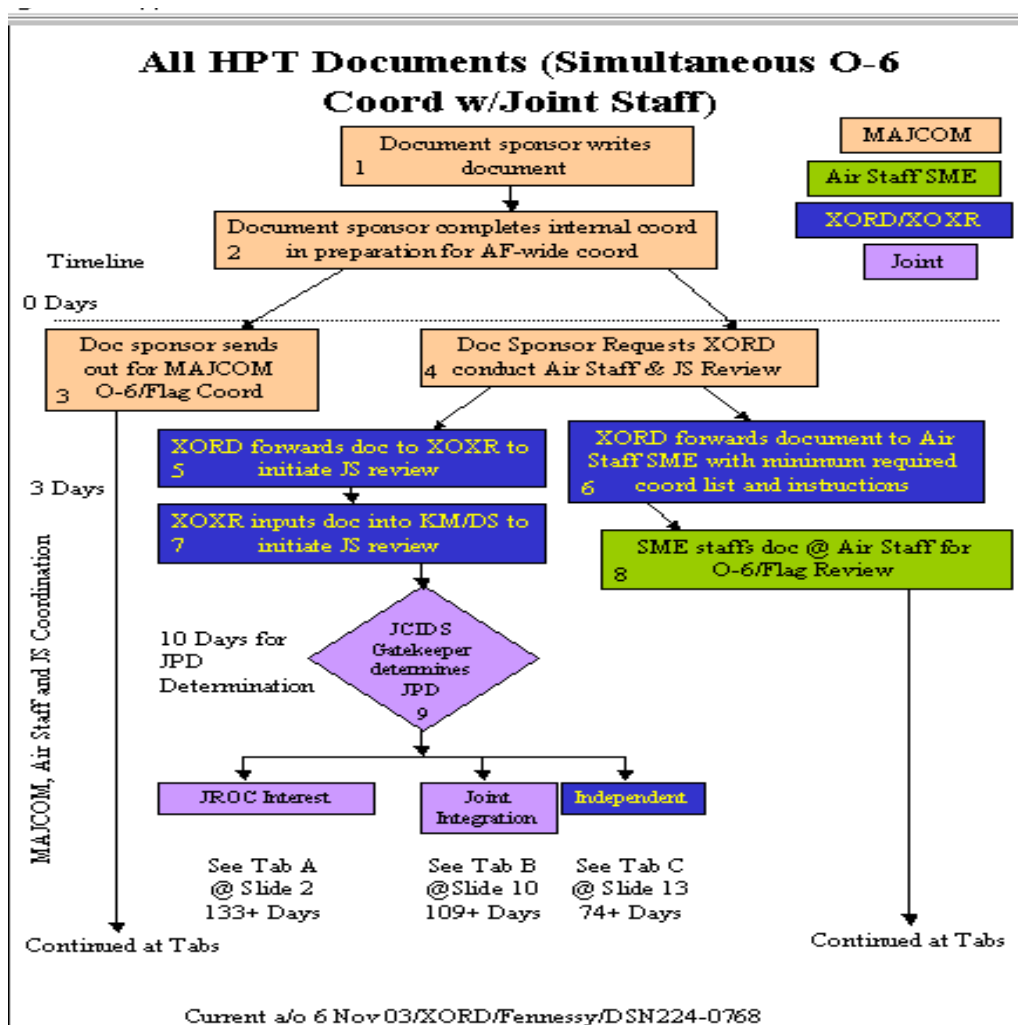
HPT GUIDANCE	XORD DOCUMENT STAFFING STATUS	AFI 10-601
HELPFUL HINTS	NEED ASSISTANCE?	XORD ARCHITECTURE PAGE
NET READY KPP INFO		

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AF/XOR Web site, <https://www.afreqs.hq.af.mil/>





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Information & Resource Support System (IRSS)

- **Web based information management tool**
 - Integrates planning, requirements and financial information
 - Facilitates development, transfer and staffing of documents
 - Provides AF-wide repository for requirements documents
 - Allows collaboration between geographical organizations
- **24-Hour Level I Help Desk Support - DSN 596-5**
- **Web-Based Training - <http://online.afit.edu/msg/>**



iRSS



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Training

- Capabilities requirement courses
 - **REQ 111** - Operational Requirements Basic Course (AFIT)
 - Peterson AFB: 3-5 Aug 04
 - **SYS 283** - Introduction to Architecture (AFIT)
 - HQ/USAF: 8-9 Apr 04
- POCs
 - REQ 111: Ms Shawn Riordan, shawn.riordan@pentagon.af.mil
 - SYS 283: Capt Brian Hartt, brian.hartt@afit.edu





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Summary

- Numerous changes to improve fielding of capabilities to the warfighters
- AF/XORD POCs:
 - **Requirements Generation Branch:**
Lt Col Craig Nygaard, DSN 426-5002
craig.nygaard@pentagon.af.mil
 - **Requirements Policy Branch:**
Maj Jeff Neischel/Maj Vic Little
DSN 224-0769/0361
jeffrey.neischel@pentagon.af.mil
victor.little@pentagon.af.mil
 - **Integration Branch:**
Lt Col Claude Salcedo, DSN 225-8628
claudesalcedo@pentagon.af.mil



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Questions?



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Air Staff Roadshow Handout

Capabilities Requirements:

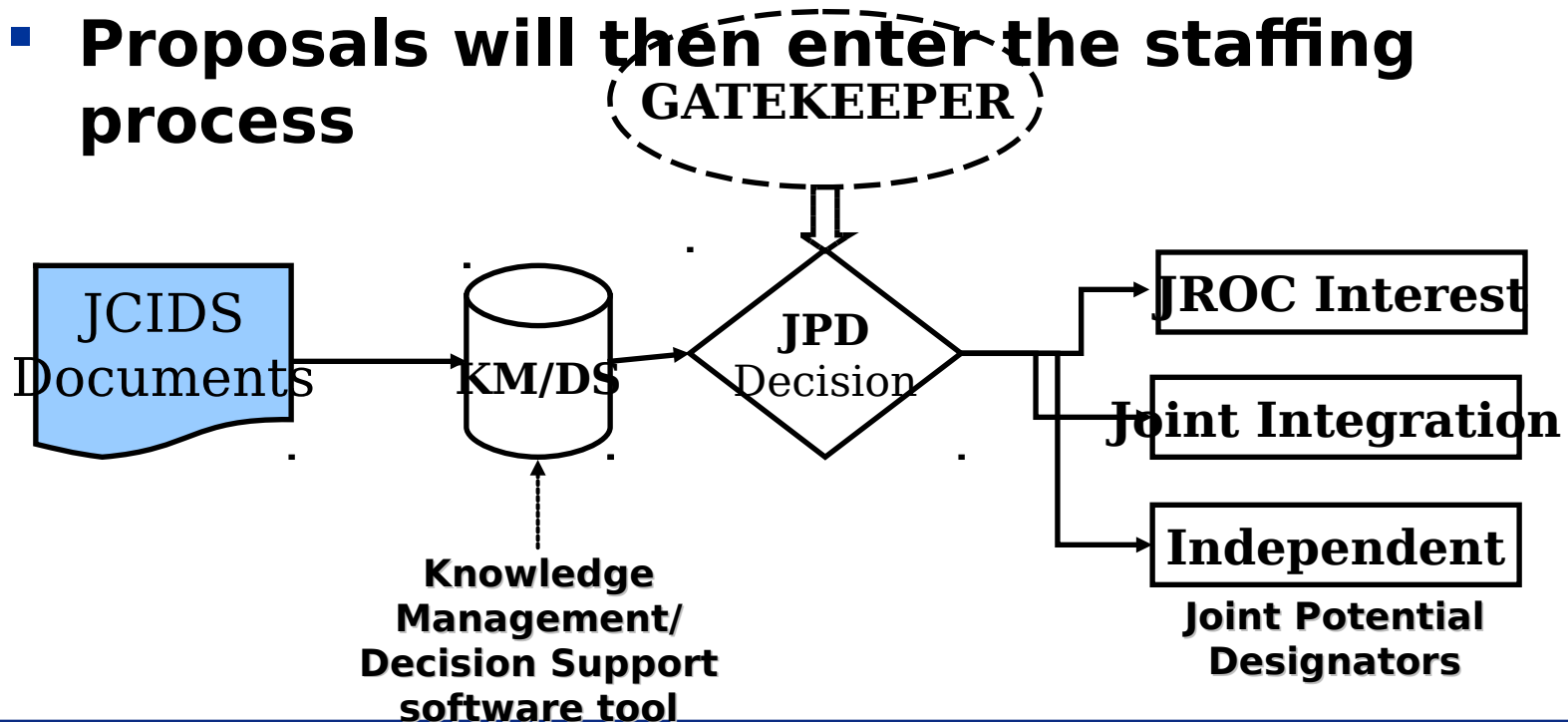
- Web site:
<https://www.afreqs.hq.af.mil/>
- IRSS:
 - 24-Hour Level I Help Desk Support - DSN 596-5771
 - Web Training - <http://online.afit.edu/msg/irss>
- POCs:
 - Requirements Generation Branch: Lt Col Craig Nygaard, DSN 426-5002
craig.nygaard@pentagon.af.mil
 - Requirements Policy Branch: Maj Vic Little, DSN 224-0361
victor.little@pentagon.af.mil
 - Integration Branch: Lt Col Claude Salcedo, DSN 225-8628
claudesalcedo@pentagon.af.mil
- Training: Requirements 111 - shawn.riordan@pentagon.af.mil
- Key points to remember
 - RSR - very important
 - ORDS / MNS are gone
 - HPTs - beneficial
 - Analysis - key
 - NR KPP - must do



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Gatekeeping Process

- All JCIDS proposals will be submitted to Gatekeeper
 - Joint potential designator (JPD) will be assigned
 - Lead/supporting FCBs identified
- Proposals will then enter the staffing process





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Joint Potential Designator (JPD)

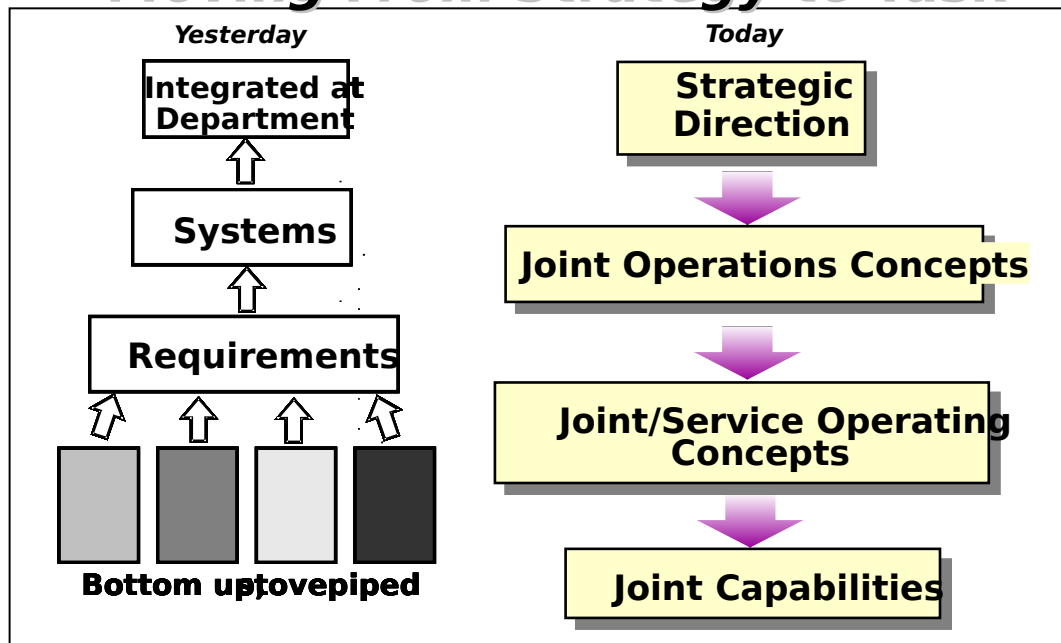
- J8 Assigns Joint Potential Designations ***Definitions***
 - JROC Interest - Approved at JROC (All ACAT I/IA)
 - Joint Integration - Requires certifications (threat, intel, C4I, insensitive munitions, NSS & IT interoperability and supportability), approved by service/component (ACAT II and below with no significant affect on joint force)
 - Independent - No certifications required, approved by service/component (ACAT II and below)



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Born Joint - Capabilities Based Methodology

Moving From Strategy to Task



- ***Guidance***
- ***Concepts***
- ***Scenarios***
- ***MOEs***
- ***Capabilities***

- ✓ **Improves analytical rigor in the process**
- ✓ **Focuses leadership on key decision points early**
- ✓ **Provides opportunities to adjust at the proper points along the way**
- ✓ **Shifts the focus from grading the homework in a threat based process to determining joint capability needs and orchestrating joint solutions**



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New DoD 5000 Process



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Back-up

CONOPS Vision

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Air Force Concepts of Operations (CONOPS) ... will guide our planning and programming, requirements

...Air Staff designed a new review to replace the QAPR--we call this new approach a Capabilities Review and Risk Assessment (CRRA).

CHIEF'S SIGHT PICTURE: Capabilities Review and Risk Assessment

What happened to the Quarterly Acquisition Review Program (QAPR)? In this Sight Picture, I'll answer that question--but to do so, I first need to give you a sense of the bigger picture in which the answer fits.

The Air Staff is currently working hard to lay the foundation for the next step in our transformation to a capabilities-focused Expeditionary Air and Space Force. Our goal is to make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we do. The development of new Task Force CONOPS, planning and programming, requirements reform, and the development of new Task Force CONOPS that we are fleshing out--Global Strike Task Force CONOPS is a prominent example and is the farthest along in development.

It's in this context the Air Staff has designed a new review to replace the QAPR--we call this new approach a Capabilities Review and Risk Assessment (CRRA). The focus of the CRRA will shift from a review of how our programs contribute to the development of new Task Force CONOPS. As with all aspects of the Air Force CONOPS.

Let me briefly describe the logic behind the CRRA construct. For our first time ever, we'll review the capabilities that support the GSTF. The CRRA will evaluate the health and risk of each of the required GSTF capabilities over the next 20 years. To accomplish this, we will review acquisition programs and discuss disconnects and prioritization in relation to how the programs support GSTF capabilities. The bottom-line goal for the CRRA is to give senior USAF leadership an operational, capabilities-based focus for acquisition program decisionmaking.

The target for the GSTF CRRA is June 2002. As future Task Force CONOPS are defined, we will hold CRRA's accordingly. SAFAQ and AF/XO will lead us through this first cycle, with major input from the MAJCOMs. Much work needs to be done through the next four months to make this a successful review, and I need your support so our Air Force can move in the right direction--towards using operational warfighting effects as the origin for every piece of hardware and software we buy.

...make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we

... shift from a program review to a review of how our programs contribute to warfighting capabilities and effects.

The CSAF Sight Picture <http://afconops.hq.af.mil/support/csafcrra.ppt>

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Joint Functional Areas & Concepts

Joint Operating Concepts

**Major
Combat
Operations**
(JFCOM)

**Homeland
Security**
(NORTHCOM)

**Stability
Operations**
(JFCOM)

**Strategic
Deterrence**
(STRATCOM)

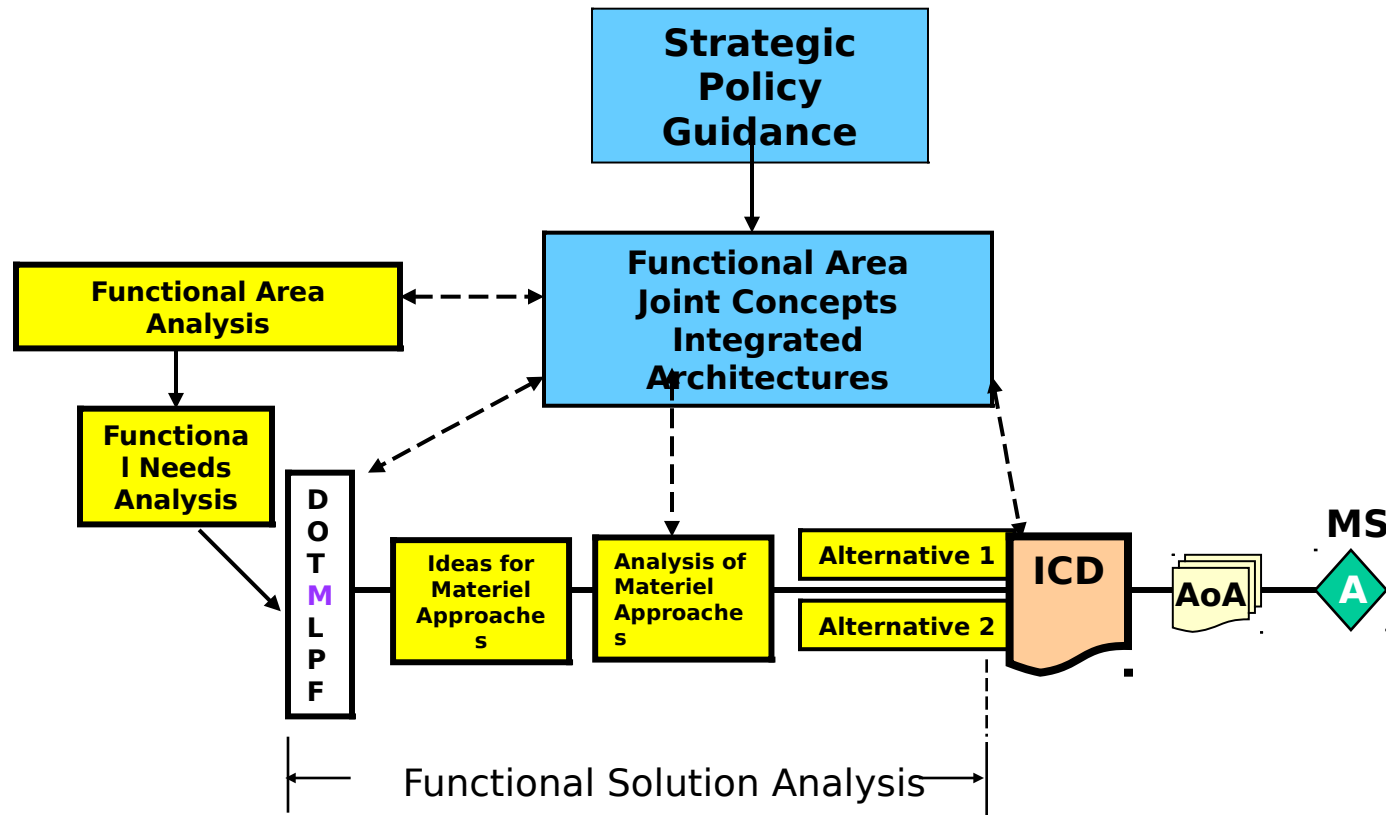
Battlespace Awareness				
Command and Control				
Force Application				
Protection				
Focused Logistics				

**Joint Functional
Areas & Concepts**



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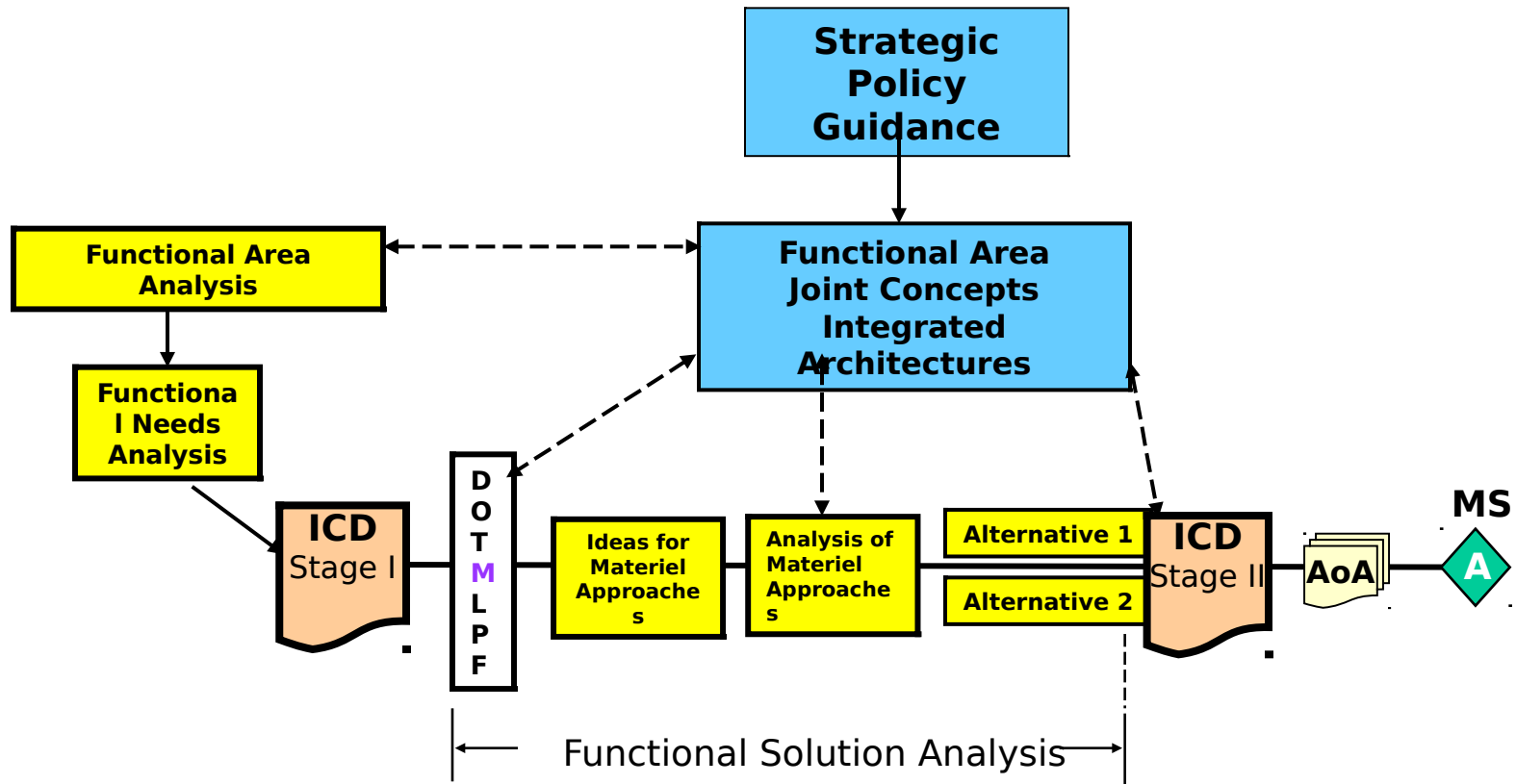
Joint Capabilities Integration & Development System (JCIDS)





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Joint Capabilities Integration & Development System (JCIDS)





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AF Process to Implement JCIDS

